ACCESS DB # 128719

FOR OFFICIAL USE ONLY

PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: MARK BERCH Examiner # : 59193 Date: 2/6/06

Art Unit: 1624 Phone Number: 2- 0663 Serial Number: 10801443

Location (Bldg/Room#): 5C01 (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _____

Inventors (please provide full names): _____

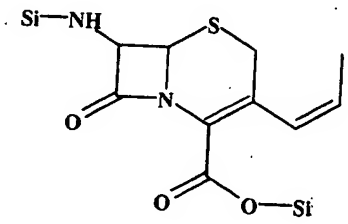
_____

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*



#2 of 2

Search this as the structure per se, and also as CAS react, where the compound with both Si atoms replaced by H is reacted with a cmpd of formula Si – Q, where Q = Hal/O/N

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: _____	____ NA Sequence (#)	____ STN ____ Dialog
Searcher Phone #: _____	____ AA Sequence (#)	____ Questel/Orbit ____ Lexis/Nexis
Searcher Location: _____	____ Structure (#)	____ Westlaw ____ WWW/Internet
Date Searcher Picked Up: _____	____ Bibliographic	____ In-house sequence systems
Date Completed: 2-17	____ Litigation	____ Commercial ____ Oligomer ____ Score/Length ____ Interference ____ SPDI ____ Encode/Transl
Searcher Prep & Review Time: _____	____ Fulltext	____ Other (specify)
Online Time: _____	____ Other	

=> fil casreact
FILE 'CASREACT' ENTERED AT 14:59:49 ON 17 FEB 2006

FILE CONTENT:1840 - 12 Feb 2006 VOL 144 ISS 7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

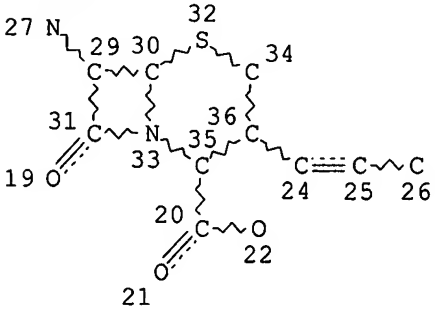
****
*
* CASREACT now has more than 10 million reactions
*
****

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

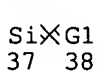
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que
L7 STR

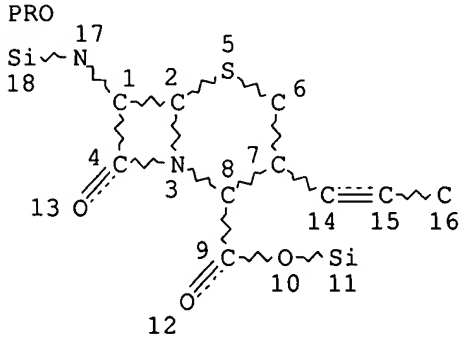
RRT



RRT



PRO



VAR G1=X/O/N

NODE ATTRIBUTES:
NSPEC IS RC AT 11
NSPEC IS RC AT 18
CONNECT IS E1 RC AT 22
CONNECT IS E1 RC AT 27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE
L9 0 SEA FILE=CASREACT SSS FUL L7 (0 REACTIONS)

```
=> d his ful

     (FILE 'HOME' ENTERED AT 14:53:42 ON 17 FEB 2006)

     FILE 'REGISTRY' ENTERED AT 14:53:52 ON 17 FEB 2006
L1        89612 SEA ABB=ON  PLU=ON  NC3/ESS AND NCSC3/ESS
L2          113 SEA ABB=ON  PLU=ON  L1 AND SI>1
L3          111 SEA ABB=ON  PLU=ON  L2 AND N>1 AND O>2
L4              STR
L5            0 SEA SSS SAM L4
L6            7 SEA SSS FUL L4
                D SCA

     FILE 'CASREACT' ENTERED AT 14:57:32 ON 17 FEB 2006
L7              STR L4
L8            0 SEA SSS SAM L7 (     0 REACTIONS)
L9            0 SEA SSS FUL L7 (     0 REACTIONS)

     FILE 'CASREACT' ENTERED AT 14:59:49 ON 17 FEB 2006
                D QUE

     FILE 'REGISTRY' ENTERED AT 15:00:14 ON 17 FEB 2006
L10             STR L4
L11           184 SEA SSS FUL L10
L12       1224926 SEA ABB=ON  PLU=ON  SI/ELS

     FILE 'HCAPLUS' ENTERED AT 15:00:53 ON 17 FEB 2006
L13             3 SEA ABB=ON  PLU=ON  L6(L)PREP+ALL/RL
L14            38 SEA ABB=ON  PLU=ON  L11(L)RACT+ALL/RL
L15             3 SEA ABB=ON  PLU=ON  L13 AND L14

     FILE 'REGISTRY' ENTERED AT 15:02:06 ON 17 FEB 2006

     FILE 'HCAPLUS' ENTERED AT 15:02:09 ON 17 FEB 2006
L16             TRA L15 1- RN :       94 TERMS

     FILE 'REGISTRY' ENTERED AT 15:02:09 ON 17 FEB 2006
L17            94 SEA ABB=ON  PLU=ON  L16
L18               STR
L19             9 SEA SUB=L17 SSS FUL L18

     FILE 'HCAPLUS' ENTERED AT 15:02:46 ON 17 FEB 2006
L20          9310 SEA ABB=ON  PLU=ON  L19(L)RACT+ALL/RL
L21             3 SEA ABB=ON  PLU=ON  L20 AND L15
L22             4 SEA ABB=ON  PLU=ON  L6
L23             4 SEA ABB=ON  PLU=ON  L21 OR L22


     FILE HOME

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

     STRUCTURE FILE UPDATES:   15 FEB 2006  HIGHEST RN 874326-73-5
     DICTIONARY FILE UPDATES:  15 FEB 2006  HIGHEST RN 874326-73-5

     New CAS Information Use Policies, enter HELP USAGETERMS for details.
```

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE CASREACT
Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 12 Feb 2006 VOL 144 ISS 7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
**********************************************************
*                                                        *
*     CASREACT now has more than 10 million reactions    *
*                                                        *
**********************************************************
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 17 Feb 2006 VOL 144 ISS 9
FILE LAST UPDATED: 16 Feb 2006 (20060216/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

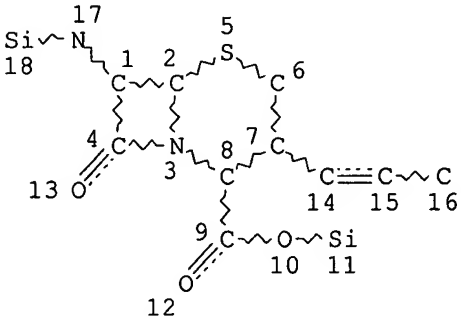
=> fil hcap
FILE 'HCAPLUS' ENTERED AT 15:03:29 ON 17 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Feb 2006 VOL 144 ISS 9
FILE LAST UPDATED: 16 Feb 2006 (20060216/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

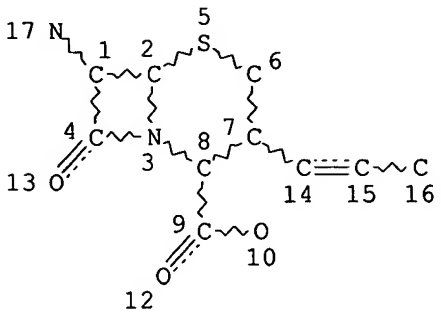
=> d que stat
L4 STR



NODE ATTRIBUTES:
NSPEC IS RC AT 11
NSPEC IS RC AT 18
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
L6 7 SEA FILE=REGISTRY SSS FUL L4
L10 STR



NODE ATTRIBUTES:
CONNECT IS E1 RC AT 10
CONNECT IS E1 RC AT 17
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE
L11 184 SEA FILE=REGISTRY SSS FUL L10
L13 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L)PREP+ALL/RL
L14 38 SEA FILE=HCAPLUS ABB=ON PLU=ON L11(L)RACT+ALL/RL
L15 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND L14
L16 TRANSFER PLU=ON L15 1- RN : 94 TERMS
L17 94 SEA FILE=REGISTRY ABB=ON PLU=ON L16
L18 STR

Si✕G1
1 2

VAR G1=X/O/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE
L19 9 SEA FILE=REGISTRY SUB=L17 SSS FUL L18
L20 9310 SEA FILE=HCAPLUS ABB=ON PLU=ON L19(L)RACT+ALL/RL
L21 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L15
L22 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L6
L23 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 OR L22

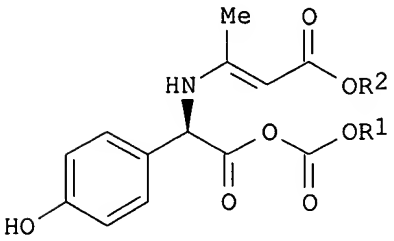
=> d l23 ibib abs hitstr 1-4

L23 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:450973 HCAPLUS

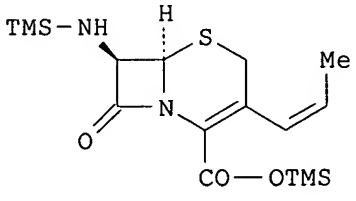
DOCUMENT NUMBER: 142:481876
TITLE: Process for preparation of 7-[α-amino(4-hydroxyphenyl)acetamido]-3-substituted-3-cephem-4-carboxylic acid
INVENTOR(S): Tyagi, Om Dutt; Rane, Dnyandev Ragho; Srivastava, Tushar Kumar; Sirsath, Krishnarao Tukaram
PATENT ASSIGNEE(S): Lupin Ltd., India
SOURCE: U.S. Pat. Appl. Publ., 12 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005113570	A1	20050526	US 2004-801443	20040315
PRIORITY APPLN. INFO.:			IN 2003-MU1031 A	20030310

OTHER SOURCE(S): CASREACT 142:481876; MARPAT 142:481876
GI



I



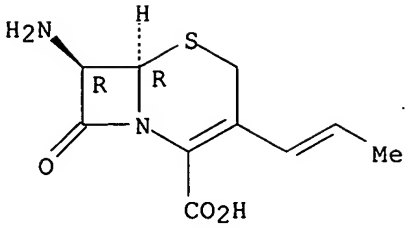
II

AB A process is described for the preparation of 7-[D-α-amino-α-(4-hydroxyphenyl)acetamido]-3-(1-propen-1-yl)-3-cephem-4-carboxylic acid (Cefprozil) in high yield and high purity, substantially free of impurities, which comprises preparation of mixed acid anhydride I (R1 = alkyl, aryl; R2 = Me, Et) by selecting the sequence and temperature of addition of the reagents and its subsequent condensation with a protected 7-APCA, followed by hydrolysis, isolation and purification to give Cefprozil in the form of a monohydrate. Thus, I (R1 = Et, R2 Me) was prepared from Et chloroformate with N-methylmorpholine and the potassium phenylacetate derivative, then condensed with II (preparation given), followed by HCl hydrolysis to give Cefprozil monohydrate.

IT **120709-09-3**, 7 APCA
RL: **RCT (Reactant); RACT (Reactant or reagent)**
(preparation of Cefprozil via condensation of mixed anhydride with disilylated 7-APCA followed by hydrolysis)

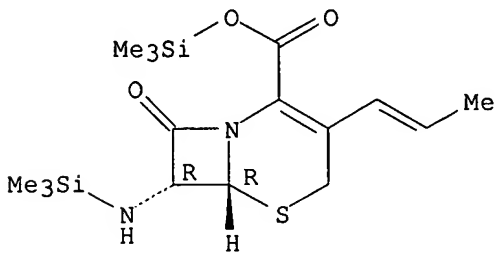
RN 120709-09-3 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-amino-8-oxo-3-(1-propenyl)-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



IT **851983-02-3P**
RL: **RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)**
(preparation of Cefprozil via condensation of mixed anhydride with disilylated 7-APCA followed by hydrolysis)
RN 851983-02-3 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 8-oxo-3-(1-propenyl)-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L23 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:372931 HCAPLUS
DOCUMENT NUMBER: 140:391158
TITLE: Process for preparing 3-propenyl cephalosporin DMF solvate from 4-methoxybenzyl 7-phenylacetamido-3-chloromethyl-3-cephem-4-carboxylate
INVENTOR(S): Deshpande, Pandurang Balwant; Khadangale, Bhausaheb Pandharinath; Gurusamy, Kumar; Konda, Ramesh Athmaram
PATENT ASSIGNEE(S): Orchid Chemicals & Pharmaceuticals Limited, India
SOURCE: U.S. Pat. Appl. Publ., 10 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004087786	A1	20040506	US 2002-315010	20021210
US 6903211	B2	20050607		
WO 2004039812	A1	20040513	WO 2002-IB5459	20021218

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

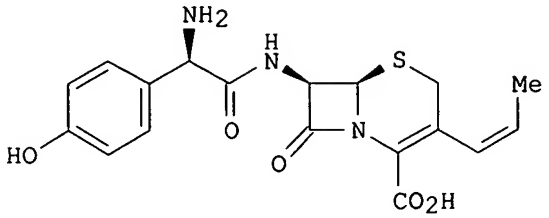
EP 1562957	A1	20050817	EP 2002-788375	20021218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

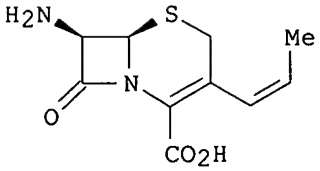
PRIORITY APPLN. INFO.:	IN 2002-MA800	A	20021030
	WO 2002-IB5459	W	20021218

OTHER SOURCE(S): CASREACT 140:391158; MARPAT 140:391158

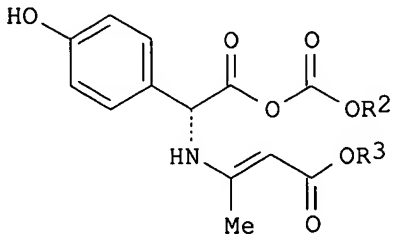
GI



I



III



IV

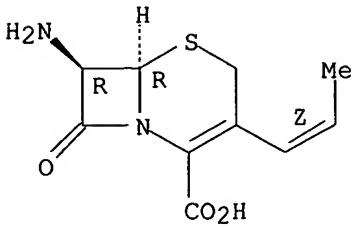
AB The present invention relates to an improved process for the preparation of 3-propenyl cephalosporin (I) DMF solvate (II), more particularly, the present invention relates to an improved process for the preparation of cefprozil DMF solvate, which is useful for the preparation of cefprozil. Thus, 7-APCA (III) prepared from 4-methoxybenzyl 7-phenylacetamido-3-chloromethyl-3-cephem-4-carboxylate via a multistep synthetic sequence, was silylated with Me3SiCl and (Me3Si)2NHin CH2Cl2 and reacted with (-)-D-(p-hydroxyphenyl)glycine Dane salt IV (R2 = alkyl, Ph, CH2Ph, cycloalkyl; R3 = Me, Et, CHMe2), in the presence of a halogenated solvent and solvation with DMF, afforded II. II was desolvated with water to provide cis-cefprozil I.

IT **106447-44-3P**
RL: BPN (Biosynthetic preparation); IMF (Industrial manufacture); **RCT (Reactant)**; BIOL (Biological study); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation of 3-propenyl cephalosporin DMF solvate from 4-methoxybenzyl 7-phenylacetamido-3-chloromethyl-3-cephem-4-carboxylate)

RN 106447-44-3 HCAPLUS

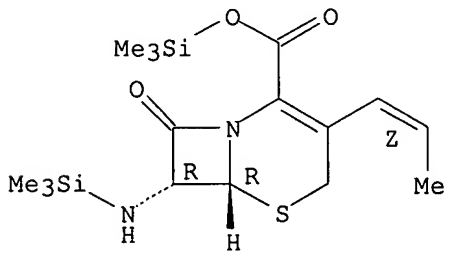
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-amino-8-oxo-3-(1Z)-1-propenyl-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

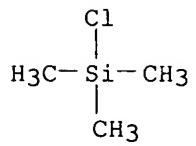


IT **685836-16-2P**
RL: **BPN (Biosynthetic preparation)**; **IMF (Industrial manufacture)**; **RCT (Reactant)**; **SPN (Synthetic preparation)**; BIOL (Biological study); **PREP (Preparation)**; **RACT (Reactant or reagent)**
(preparation of 3-propenyl cephalosporin DMF solvate from 4-methoxybenzyl 7-phenylacetamido-3-chloromethyl-3-cephem-4-carboxylate)
RN 685836-16-2 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 8-oxo-3-(1Z)-1-propenyl-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



IT **75-77-4**, Trimethylsilyl chloride, reactions **999-97-3**, Hexamethyldisilazane
RL: **RCT (Reactant)**; **RACT (Reactant or reagent)**
(preparation of 3-propenyl cephalosporin DMF solvate from 4-methoxybenzyl 7-phenylacetamido-3-chloromethyl-3-cephem-4-carboxylate)
RN 75-77-4 HCAPLUS
CN Silane, chlorotrimethyl- (8CI, 9CI) (CA INDEX NAME)



RN 999-97-3 HCAPLUS
CN Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (9CI) (CA INDEX NAME)

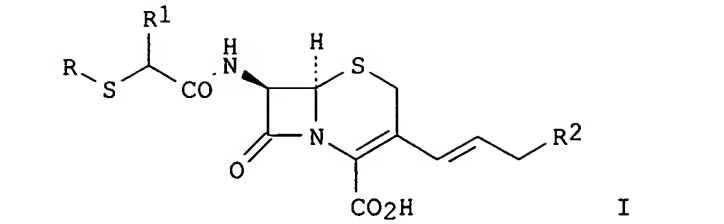
$Me_3Si-NH-SiMe_3$

L23 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:819381 HCAPLUS
DOCUMENT NUMBER: 132:64106
TITLE: Preparation and formulation of propenyl cephalosporin derivatives for pharmaceutical use as antibiotics for the treatment and prophylaxis of infectious diseases
INVENTOR(S): Angehrn, Peter; Goetschi, Erwin; Heinze-Krauss, Ingrid; Richter, Hans G. F.
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

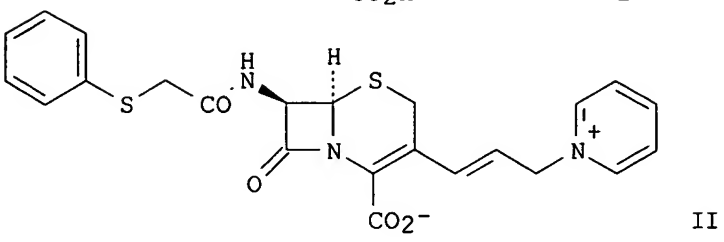
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967255	A1	19991229	WO 1999-EP4034	19990611
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2335288	AA	19991229	CA 1999-2335288	19990611
AU 9946081	A1	20000110	AU 1999-46081	19990611
AU 761450	B2	20030605		
BR 9911445	A	20010320	BR 1999-11445	19990611
EP 1090013	A1	20010411	EP 1999-929182	19990611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200003807	T2	20010621	TR 2000-200003807	19990611
JP 2002518505	T2	20020625	JP 2000-555907	19990611
US 6583133	B1	20030624	US 1999-337908	19990622
ZA 2000007074	A	20020530	ZA 2000-7074	20001130
NO 2000006507	A	20001220	NO 2000-6507	20001220

PRIORITY APPLN. INFO.:	EP 1998-111415	A	19980622
	EP 1999-108149	A	19990426
	WO 1999-EP4034	W	19990611

OTHER SOURCE(S): MARPAT 132:64106
GI



I



II

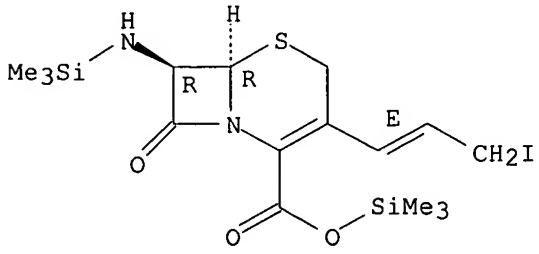
AB Propenyl cephalosporins I [R = alkyl, aryl, heteroaryl, arylalkyl, alkenyl, etc.; R1 = H, Ph, alkyl; R2 = group with a secondary-, tertiary or quaternary nitrogen atom bound directly to the propenyl group, such as pyridinium, pyrrolidine, trimethylammonium, etc.] were prepared and formulated for pharmaceutical use as antibiotics for the treatment and prophylaxis of infectious diseases. Thus, propenyl cephalosporin II was prepared in a 3 step synthetic sequence starting from [6R-[3(E),6α,7β]]-3-(3-iodo-1-propenyl)-8-oxo-7-[(trimethylsilyl)amino]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid trimethylsilyl ester, phenylthioacetic acid, and pyridine. The prepared propenyl cephalosporins were tested for antibacterial activity against methicillin-resistant strains of Staphylococcus aureus.

IT **148304-98-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and formulation of propenyl cephalosporin derivs. for pharmaceutical use as antibiotics for the treatment and prophylaxis of infectious diseases)

RN 148304-98-7 HCAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(1E)-3-iodo-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



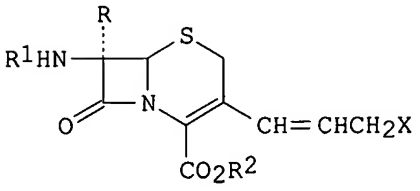
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:427926 HCAPLUS
DOCUMENT NUMBER: 119:27926
TITLE: Preparation and reaction of silylated iodoallylcephalosporins
INVENTOR(S): Ludescher, Johannes; Sturm, Hubert; Wieser, Josef
PATENT ASSIGNEE(S): Biochemie Gesellschaft m.b.H., Austria
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 528343	A2	19930224	EP 1992-113715	19920812
EP 528343	A3	19930310		
EP 528343	B1	20020918		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 9101636	A	19921015	AT 1991-1636	19910821
AT 396108	B	19930625		
AT 224393	E	20021015	AT 1992-113715	19920812
PT 528343	T	20021231	PT 1992-113715	19920812
ES 2183804	T3	20030401	ES 1992-113715	19920812
JP 05194533	A2	19930803	JP 1992-221330	19920820
JP 2561780	B2	19961211		
US 5644052	A	19970701	US 1995-437084	19950505
US 5686604	A	19971111	US 1995-437083	19950505
US 6169180	B1	20010102	US 1997-947215	19971008
PRIORITY APPLN. INFO.:			AT 1991-1636 A	19910821
			US 1992-932145 B1	19920819
			US 1995-437083 A3	19950505

OTHER SOURCE(S): MARPAT 119:27926
GI



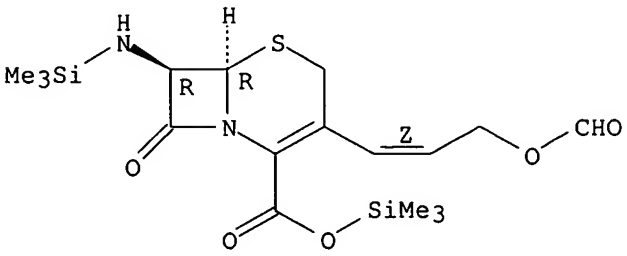
I

AB Title compds. (I; R = H, MeO; R1 = H, silyl protecting group; R2 = H, silyl protecting group, neg. charge; X = radical of a nucleophile), were prepared by treatment of I (R = H, MeO; R1 = R2 = silyl; X = iodo) with a nucleophile followed by optional desilylation. Thus, 7-trimethylsilylamino-3-(3-iodo-1-propen-1-yl)-3-cephem-4-carboxylic acid trimethylsilyl ester (preparation given) was stirred at 0° with a prerefluxed mixture of N-methyl-N-ethylglycinamide, saccharin, and (Me3Si)2NH in MeCN to give 7-amino-3-[(E)-3-(carbamoylmethylethylammonium)-1-propen-1-yl]-3-cephem-4-carboxylic acid iodide.

IT **148305-34-4 148333-03-3**
RL: **RCT (Reactant); RACT (Reactant or reagent)**

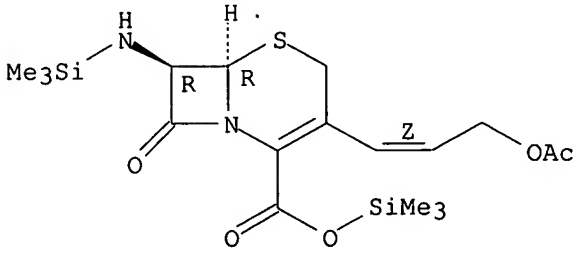
(N-silylation of)
RN 148305-34-4 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[3-(formyloxy)-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, [6R-[3(Z),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



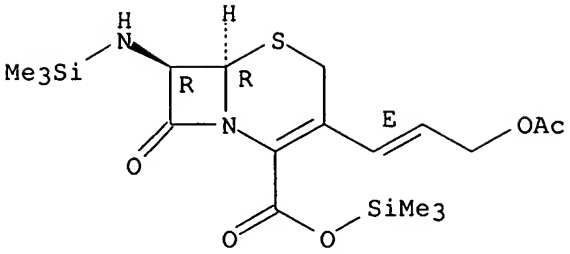
RN 148333-03-3 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[3-(acetyloxy)-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, [6R-[3(Z),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



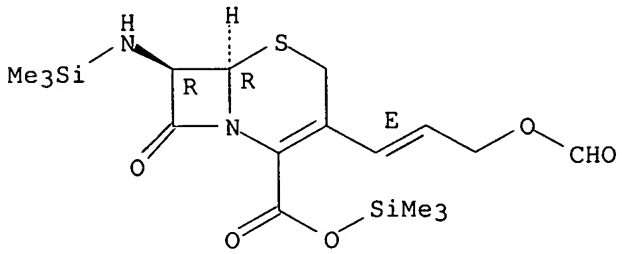
IT **148304-99-8P 148305-00-4P 148305-35-5P**
RL: **RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)**
(preparation and iodination of)
RN 148304-99-8 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[3-(acetyloxy)-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, [6R-[3(E),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



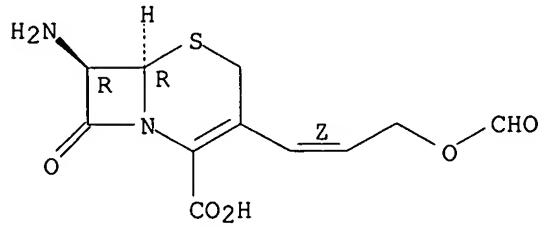
RN 148305-00-4 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[3-(formyloxy)-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, [6R-[3(E),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



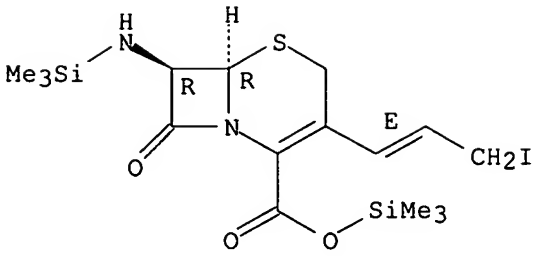
RN 148305-35-5 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-amino-3-[3-(formyloxy)-1-propenyl]-8-oxo-, [6R-[3(Z),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



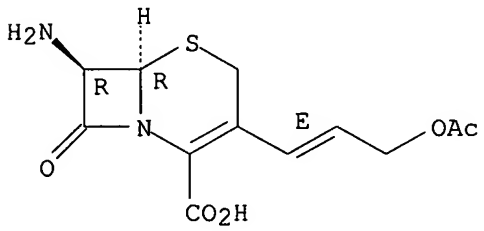
IT **148304-98-7P**
RL: **RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)**
(preparation and reaction of, with nucleophiles)
RN 148304-98-7 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(1E)-3-iodo-1-propenyl]-8-oxo-7-[(trimethylsilyl)amino]-, trimethylsilyl ester, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



IT **69959-14-4 148305-01-5**
RL: **RCT (Reactant); RACT (Reactant or reagent)**
(silylation of)
RN 69959-14-4 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(1E)-3-(acetyloxy)-1-propenyl]-7-amino-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 148305-01-5 HCAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-amino-3-[3-(formyloxy)-1-propenyl]-8-oxo-, [6R-[3(E),6α,7β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.